



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF EDUCATION
Department of science education
2025_2 EXAMINATIONS

COURSE CODE: SED831

COURSE TITLE: CURRICULUM TRENDS IN SCIENCE EDUCATION

CREDIT UNITS: 3

Instructions: Answer question 1 and any other three questions.

Time Allowed: 3 Hours

- 1a. How will the four postulates of Paul Hirst be of useful to you as a science teacher? 10 Marks
b. Describe the most common misconceptions held by students about science subjects. 5 Marks
c. In a tabular form, briefly discuss how you explain science process skill to your students. 10 Marks
- 2a. What is Kuhn's view of normal science? 2 Marks
b. Discuss the contributions of STAN to the success of science education in Nigeria. 10 Marks
c. What are the names of the national bodies in charge of universities and polytechnics? 3 Marks
- 3a. What will you consider as impediment to the successful implementation of science education programmes in Nigeria since independence? 5 marks
b. Discuss the ways the private sector can re-shape science education in Nigeria. 5 Marks
c. Write the following in full:
i. NBDC
ii. CESAC
iii. WAEC
iv. NERDC
v. STAN 5
Marks
- 4ai. What challenges do **Global Warming** and **Pollution** pose to development of science education in Nigeria? 6 Marks
a.ii. State four Strategies to Mitigate these Challenges 4 Marks
b. List and discuss the criteria you as a science teacher will use in identifying and selecting subject content. 5Marks
- 5a. What are the CESAC contributions to science teaching in our secondary schools in Nigeria? 5 Marks
b. List the four curriculum development bodies that formed NERDC. 4 Marks
c. Briefly discuss how the problem of unpreparedness of science teachers can affect the proper implementation of a curriculum. 6 Marks